

SYSTEM AND METHOD FOR CONVERTING LIGHT HYDROCARBONS INTO HEAVIER HYDROCARBONS WITH A PLURALITY OF SYNTHESIS GAS SUBSYSTEMS

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ABSTRACT OF THE DISCLOSURE

A system and method for converting normally gaseous, light hydrocarbons into heavier, longer-chain hydrocarbons includes a turbine; a first synthesis gas subsystem; a second synthesis gas subsystem that receives thermal energy from the turbine and which preferably includes a steam reformer; and a synthesis subsystem for receiving synthesis gas from the first synthesis gas subsystem and the second synthesis gas subsystem and for producing the heavier hydrocarbons. A method includes using a plurality of synthesis gas subsystems to prepare synthesis gas for delivery to and conversion in a synthesis subsystem.

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